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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/990,558	11/21/2001	Sung-Ho Choi	678-774 (P9992)	2537
28249	7590	10/20/2005		EXAMINER
DILWORTH & BARRESE, LLP 333 EARLE OVINGTON BLVD. UNIONDALE, NY 11553				SHEW, JOHN
			ART UNIT	PAPER NUMBER
			2664	

DATE MAILED: 10/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/990,558	CHOI ET AL.
	Examiner	Art Unit
	John L. Shew	2664

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 21 November 2001.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) _____ is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1,4-6 and 9 is/are rejected.

7) Claim(s) 2,3,7,8 and 10-12 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 21 November 2001 is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date. ____ .
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 01212003. 5) Notice of Informal Patent Application (PTO-152)
6) Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 4, 5, 6, 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rune et al. (Pub. No. 2002/0025815) in view of Wallentin et al. (Patent No. 6594238).

Claim 1, Rune teaches a method for setting a common channel for a packet data service by a SRNC (Serving Radio Network Controller) (FIG. 1A, Abstract lines 1-6) referenced by the Core Network Service Nodes including a SRNC assigning a C-Radio Network Temporary Identifier to a common channel, to a UE (User Equipment) (page 3 paragraph [0026]) referenced by the second mode wherein the SRNC assigns the cell involving the UE and the C-RNTI in the assigned cell, through a Node B and a DRNC (Drift Radio Network Controller) (FIG. 1B, page 5 paragraph [0050]) referenced by the communication of the SRNC through the DRNC 26₂ via the Base Station 28₂₋₂ to the UE 30, when the UE is handed over from a first Node B to a second Node B as the UE moves to the second Node B (FIG. 1A, page 3 paragraph [0029], FIG. 1B, page 3

paragraph [0030]) referenced by the handover of the UE 30 connection from the first node BS 28₁₋₁ to second node BS 28₂₋₂, in a mobile communication system including the UE (FIG. 1A, page 1 paragraph [0004]) referenced by the mobile user equipment units communicating via a radio access network, the first Node B providing the packet data service to the UE (FIG. 1, page 4 paragraphs [0040]-[0042], FIG. 1A, page 4 paragraph [0048]) referenced by the BS 28₁₋₁ communicating with the UE 30 shown through broken line 36_{1A} providing packet switched type services of the core network, the SRNC connected to the first Node B (FIG. 1A) referenced by the SRNC 26₁ in communication with the BS 28₁₋₁, a CN (Core Network) connected to the SRNC (FIG. 1A) referenced by the Core Network Service Nodes 16 in communication with the SRNC 26₁, and the DRNC connected the second Node B neighboring the first Node B (FIG. 1A) referenced by the RNC 26₂ in communication with the second node BS 28₂₋₂ which neighbors the first node BS 28₁₋₁, and also connected to the SRNC (FIG. 1B) referenced by the SRNC 26₁ in communication with the second node BS 28₂₋₂ via the DRNC 26₂, the method comprising the steps of transmitting service parameters for the packet data service to the DRNC (FIG. 1B, FIG. 3, FIG. 4C-2, page 7 paragraph [0063]) referenced by the SRNC 26₁ transmission of REQUEST message 3-3 including parameters C-RNTI Cell Identity and Radio Resources to the DRNC 26₂, receiving information on a common channel determined based on the service parameters from the DRNC (FIG. 3, page 7 paragraphs [0065]-[0067]) referenced by steps 100-3 and 100-4 wherein the parameters C-RNTI and radio resource are used to determine if the UE is to switch to Common Channel, and transmitting information on the determined

common channel to the UE through the DRNC and the second Node B to allocate the determined common channel to the UE (FIG. 1B, FIG. 3) reference by the REQUEST message 3-3 to the UE via the DRNC wherein the message request the UE to switch to Common Channel. Rune does not teach bit rate information.

Wallentin teaches the CN has bit rate information for the packet data service and transmits the bit rate information to the SRNC (Abstract lines 1-13, FIG. 2, FIG. 6) referenced by the measurement of Packet Density at step 62 wherein the packet density is the bit rate as received by the Radio Network Controller 26 from the UMTS Core Network 16, and the SRNC stores the bit rate information (FIG. 6) referenced by the Store of the packet density at step 62, transmitting service parameters including the bit rate information for the packet data service to the DNRC (FIG. 4, FIG. 9) referenced by measure of the value of one or more parameter step 42 followed by the send packet data of best type of channel step 46 via the Change Connection State to the RNC Controller 75.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the traffic parameters used for adapting a connection state as taught by Wallentin to the mobile system of switching to common channels of Rune for the purpose of providing a connection which is dynamically adapted to an optimal state base on one or more conditions relating to the connection as suggested by Wallentin (col. 2 lines 24-25).

Claim 4, Rune teaches a method for setting a common channel for a packet data service by a SRNC (Serving Radio Network Controller) (FIG. 1A, Abstract lines 1-6) referenced by the Core Network Service Nodes including a SRNC assigning a C-Radio Network Temporary Identifier to a common channel, to a UE (User Equipment) (page 3 paragraph [0026]) referenced by the second mode wherein the SRNC assigns the cell involving the UE and the C-RNTI in the assigned cell, through a Node B and a DRNC (Drift Radio Network Controller) (FIG. 1B, page 5 paragraph [0050]) referenced by the communication of the SRNC through the DRNC 26₂ via the Base Station 28₂₋₂ to the UE 30, when the UE is handed over from a first Node B to a second Node B as the UE moves to the second Node B (FIG. 1A, page 3 paragraph [0029], FIG. 1B, page 3 paragraph [0030]) referenced by the handover of the UE 30 connection from the first node BS 28₁₋₁ to second node BS 28₂₋₂, in a mobile communication system including the UE (FIG. 1A, page 1 paragraph [0004]) referenced by the mobile user equipment units communicating via a radio access network, the first Node B providing the packet data service to the UE (FIG. 1, page 4 paragraphs [0040]-[0042], FIG. 1A, page 4 paragraph [0048]) referenced by the BS 28₁₋₁ communicating with the UE 30 shown through broken line 36_{1A} providing packet switched type services of the core network, the SRNC connected to the first Node B (FIG. 1A) referenced by the SRNC 26₁ in communication with the BS 28₁₋₁, a CN (Core Network) connected to the SRNC (FIG. 1A) referenced by the Core Network Service Nodes 16 in communication with the SRNC 26₁, and the DRNC connected the second Node B neighboring the first Node B (FIG. 1A) referenced by the RNC 26₂ in communication with the second node BS 28₂₋₂

which neighbors the first node BS 28₁₋₁, and also connected to the SRNC (FIG. 1B) referenced by the SRNC 26₁ in communication with the second node BS 28₂₋₂ via the DRNC 26₂, the method comprising the steps of transmitting service parameters for the packet data service to the DRNC (FIG. 1B, FIG. 3, FIG. 4C-2, page 7 paragraph [0063]) referenced by the SRNC 26₁ transmission of REQUEST message 3-3 including parameters C-RNTI Cell Identity and Radio Resources to the DRNC 26₂, using an RNSAP (Radio Network Subsystem Application Part) message (FIG. 3, page 7 paragraph [0065]) referenced by the use of RNSAP signaling for request messages including 3-1 which carries the parameter information, receiving information on a common channel determined based on the service parameters through an RNSAP response message from the DRNC (FIG. 3, page 7 paragraphs [0065]-[0067]) referenced by RNSAP signaling messages from the DRNC steps 100-3 and 100-4 wherein the parameters C-RNTI and radio resource are used to determine if the UE is to switch to Common Channel, and transmitting the determined common channel information to the UE through a radio resource control message to allocate the determined common channel to the UE (FIG. 1B, FIG. 3, page 6 paragraph [0061]) reference by the REQUEST message 3-3 to the UE using the RRC protocol specifications wherein the message request the UE to switch to Common Channel. Rune does not teach bit rate information.

Wallentin teaches the CN has bit rate information for the packet data service and transmits the bit rate information to the SRNC (Abstract lines 1-13, FIG. 2, FIG. 6) referenced by the measurement of Packet Density at step 62 wherein the packet

density is the bit rate as received by the Radio Network Controller 26 from the UMTS Core Network 16, and the SRNC stores the bit rate information (FIG. 6) referenced by the Store of the packet density at step 62, transmitting service parameters including the bit rate information for the packet data service to the DNRC (FIG. 4, FIG. 9) referenced by measure of the value of one or more parameter step 42 followed by the send packet data of best type of channel step 46 via the Change Connection State to the RNC Controller 75.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the traffic parameters used for adapting a connection state as taught by Wallentin to the mobile system of switching to common channels of Rune for the purpose of providing a connection which is dynamically adapted to an optimal state base on one or more conditions relating to the connection as suggested by Wallentin (col. 2 lines 24-25).

Claim 5, Rune teaches wherein the RNSAP message includes a common transport channel resources request message (FIG. 3, page 7 paragraph [0065]) referenced by the REQUEST message 3-1 which is an extension of the Common Transport Channel Resources procedure of the RNSAP signaling.

Claim 6, Rune teaches wherein the RNSAP response message includes a common transport channel resources response message (FIG. 3, page 7 paragraph [0065])

referenced by the RESPONSE message 3-2 which is an extension of the Common Transport Channel Resources procedure of the RNSAP signaling.

Claim 9, Rune teaches a method for setting a common channel for a packet data service by a SRNC (Serving Radio Network Controller) (FIG. 1A, Abstract lines 1-6) referenced by the Core Network Service Nodes including a SRNC assigning a C-Radio Network Temporary Identifier to a common channel, to a UE (User Equipment) (page 3 paragraph [0026]) referenced by the second mode wherein the SRNC assigns the cell involving the UE and the C-RNTI in the assigned cell, through a Node B and a DRNC (Drift Radio Network Controller) (FIG. 1B, page 5 paragraph [0050]) referenced by the communication of the SRNC through the DRNC 26₂ via the Base Station 28₂₋₂ to the UE 30, when the UE is handed over from a first Node B to a second Node B as the UE moves to the second Node B (FIG. 1A, page 3 paragraph [0029], FIG. 1B, page 3 paragraph [0030]) referenced by the handover of the UE 30 connection from the first node BS 28₁₋₁ to second node BS 28₂₋₂, in a mobile communication system including the UE (FIG. 1A, page 1 paragraph [0004]) referenced by the mobile user equipment units communicating via a radio access network, the first Node B providing the packet data service to the UE (FIG. 1, page 4 paragraphs [0040]-[0042], FIG. 1A, page 4 paragraph [0048]) referenced by the BS 28₁₋₁ communicating with the UE 30 shown through broken line 36_{1A} providing packet switched type services of the core network, the SRNC connected to the first Node B (FIG. 1A) referenced by the SRNC 26₁ in communication with the BS 28₁₋₁, a CN (Core Network) connected to the SRNC (FIG.

1A) referenced by the Core Network Service Nodes 16 in communication with the SRNC 26₁, and the DRNC connected the second Node B neighboring the first Node B (FIG. 1A) referenced by the RNC 26₂ in communication with the second node BS 28₂₋₂ which neighbors the first node BS 28₁₋₁, and also connected to the SRNC (FIG. 1B) referenced by the SRNC 26₁ in communication with the second node BS 28₂₋₂ via the DRNC 26₂, the method comprising the steps of determining service parameters for the packet data service

(FIG. 1B, FIG. 3, FIG. 4A, page 6 paragraph [0058]) referenced by the SRNC 26₁ transmission of REQUEST message 3-1 including parameters D-RNTI and Cell Identity to the DRNC 26₂ to obtain radio resources information, determining a type of a common channel for transmitting packet data according to the determined service parameters (page 1 paragraph [0010], page 8 paragraph [0072]) referenced by the different types of common channels including RACH FACH CPCH DSCH and the specific channel resources to be utilized by the connection in the assigned cell, and then transmitting the determined service parameters and the determined common channel type to the DRNC (FIG. 1B, FIG. 3, page 6 paragraph [0061]) reference by the REQUEST message 3-3 to the UE using the RRC protocol specifications wherein the message request the UE to switch to Common Channel and the message is sent via the DRNC, receiving information on the common channel determined based on the service parameters and the common channel type from the DRNC, receiving information on a common channel determined based on the service parameters and the common channel type from the DRNC (FIG. 3, page 7 paragraphs [0065]-[0067]) referenced by steps 100-3 and 100-4

wherein the parameters C-RNTI and radio resource are used to determine if the UE is to switch to Common Channel, and transmitting the received common channel information to the UE through the DRNC and the second Node B to allocate the determined common channel to the UE (FIG. 1B, FIG. 3) reference by the REQUEST message 3-3 to the UE via the DRNC wherein the message request the UE to switch to Common Channel. Rune does not teach bit rate information. . Rune does not teach bit rate information.

Wallentin teaches the CN has bit rate information for the packet data service and transmits the bit rate information to the SRNC (Abstract lines 1-13, FIG. 2, FIG. 6) referenced by the measurement of Packet Density at step 62 wherein the packet density is the bit rate as received by the Radio Network Controller 26 from the UMTS Core Network 16, and the SRNC stores the bit rate information (FIG. 6) referenced by the Store of the packet density at step 62, transmitting service parameters including the bit rate information for the packet data service to the DNRC (FIG. 4, FIG. 9) referenced by measure of the value of one or more parameter step 42 followed by the send packet data of best type of channel step 46 via the Change Connection State to the RNC Controller 75.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the traffic parameters used for adapting a connection state as taught by Wallentin to the mobile system of switching to common channels of Rune for the purpose of providing a connection which is dynamically adapted to an optimal state

base on one or more conditions relating to the connection as suggested by Wallentin (col. 2 lines 24-25).

Allowable Subject Matter

2. Claims 2, 3, 7, 8, 10, 11, 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Citation of Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Patent number 6724813, Jamal et al. discloses a system of implicit resource allocation in a communication system. Publication number 2001/0018345, Longoi et al. discloses a method of cell update in a cellular communications system

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John L. Shew whose telephone number is 571-272-3137. The examiner can normally be reached on 8:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on 571-272-3134. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



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